



it will change
your way
with words!

TYPEREADER 2



Typewriter 2 Product Description

Input Method	Paper Handling
Capacity	<ul style="list-style-type: none"> • friction feed • 50 sheets • rotating hub
Transport Type	
Size	Paper Standards
Weight	<ul style="list-style-type: none"> • 5 x 5 to 12 x 14 inches (10 pitch) • 5 x 5 to 10 x 14 inches (12 pitch) • 16 to 24 lbs. plain paper (OCR bond preferred) • smooth, white, flat finish, no water mark, 70% minimum reflectivity. (Other papers must be individually qualified.)
Surface Quality	
Ribbons	Copy Standards
Ink Reflectivity	<ul style="list-style-type: none"> • TECH III or one time carbon ribbon • less than 20% (reference to barium sulphate) • light red (light blues to be individually qualified)
Undetectable Color	<ul style="list-style-type: none"> • ANSI standard X3.17-1974 (x-quality) • 1 inch top & bottom, 1/2 inch left & right • $\pm 1/2$ character • 10 and 12 characters/inch
Quality	
Margins	
Skew	
Pitch	
Note: Also see Typewriter Typist Guide.	
Fonts	Operational Parameters
Multi-Font Option	<ul style="list-style-type: none"> • OCR-B U.S./U.K. plus any one of the following: Hendrix Gothic, OCR-B France, OCR-B French Canada, OCR-B Denmark/Norway, OCR-B Germany, OCR-B South America, OCR-B Sweden/Finland or OCR-A • OCR-B U.S./U.K. plus any two of the following: OCR-A, Hendrix Gothic, OCR-B France, OCR-B French Canada, OCR-B Denmark/Norway, OCR-B Germany, OCR-B South America, OCR-B Sweden/Finland
Line Spacing	<ul style="list-style-type: none"> • 1, 1½, 2 line spacing
Scan Rate	<ul style="list-style-type: none"> • 2 lines/second
Read Rate	<ul style="list-style-type: none"> • 180 characters/second for 8½ inch wide paper • 220 characters/second for 12 inch wide paper
Instantaneous	
Recognition Rate	<ul style="list-style-type: none"> • 1,000 characters/second
Error Rate	<ul style="list-style-type: none"> • Less than 1 error in 150,000 characters • Less than 1 reject in 20,000 characters
Note: When typing is prepared according to specifications.	
Deletion Capability	
\mid • overstrike character deletes character under it $<$ • deletes previous character $<<$ • deletes previous word $<<<$ • deletes entire line $_$ • handwritten crossout deletes all characters under it	

Output Specifications

- Microprocessor controlled interface for custom applications:
- Format Options
 1. Exact page image with indents and blank lines.
 2. Word wrap with automatic paragraph detection.
 3. Automatic line length adjust with reformatting capabilities for Telex.
- Note: For all format options leading and trailing spaces are automatically suppressed.
- Code Conversions for:
 1. Foreign characters.
 2. Start of page, end of paragraph, end of line, start of line, end of page and end of document codes.
 3. Unreadable and best guess characters.
 4. Selectable delete symbol.
 5. Special codes strings can be output for subscripts, superscripts, underlines, centering codes and required function codes.
 6. Error messages transmitted to receiving device.
- Communication Options
 1. Output Codes: ASCII, EBCDIC, BAUDOT, IBM, Correspondence, or TTS.
 2. Output Parameters: Full or Half Duplex, Serial or Parallel, Synchronous or Asynchronous, Odd, Even, or No Parity for ASYNC, CRC-16 Block Check for BISYNC, RS232 and CCITT Compatible 110 to 4800 BAUD.
 3. Protocols Supported: Synchronous – IBM 2780, 3780, 3740, 2770. Asynchronous – XON XOFF, XOFF XON, echoplex, simplex, 2741 (page or line discipline) ACK by line, or CTS line control.

Physical and Electrical Parameters

- 24 inches
- 26 inches
- 39 inches (to working surface)
- 46 inches (total)
- 250 lbs.
- 5 amps @ 117V $\pm 10\%$ 60 HZ or 2.5 amps @ 230V $\pm 10\%$ 50 HZ
- 585 Watts
- Temperature: 10° to 40° C
- Relative Humidity: 30% to 80%

Safety

- listed by Underwriters Laboratories

the OCR that does it all.

TYPEREADER 2 is the OCR that reads pages typed in OCR-B, OCR-A, Hendrix Gothic and most European languages, in either 10 or 12 pitch, with any line spacing, on pages up to 12" x 14" in size. And it now reads with greater accuracy than ever before.

Since the TYPEREADER 2 requires no complicated typing format, every typist in an organization can be preparing input copy for the word processing system after just minutes of instruction.

With available interfaces, TYPEREADER 2 can be used with virtually any text editing system. Communication output options are available for use in data processing and Telex applications.

Sales and service is available throughout the United States, Canada, Europe, and major countries throughout the world.

TYPEREADER 2 from Hendrix. It will change your way with words.

it will change your way with words!

a machine that reads.

TYPEREADER 2. It is a marvel of electronic engineering. A machine that reads. A machine that is saving hundreds of companies, hundreds of thousands of dollars. A machine that makes sophisticated text editing and word processing systems practical for even the small office, and it multiplies the efficiency of systems already in use.

the link between typewriters and word processors.

With TYPEREADER 2, every single-element office typewriter becomes a vital part of the word processing system. It is the link between the typewriter and the word processor. Because with it, the same page typed by the secretary at rough draft speed, and

edited in pen by the author, is electronically read and transmitted to the text editor without anyone ever hitting another key. It can completely eliminate retying by secretaries, and there is no need for original keyboarding at the text editor. TYPEREADER 2 will save you money, manpower, time and trouble.

the latest innovation from the leader in OCR.

TYPEREADER 2 is fast, accurate and affordable. (It can read the number of characters on this page in 7 seconds!) It is manufactured by Hendrix, the company that pioneered the use of optical character recognition scanners (OCRs) in the office, and the world's leading manufacturer of OCRs for word processing. TYPEREADER 2 from Hendrix. It will change your way with words.

HENDRIX

645 Harvey Road, Manchester, N.H. 03103 • Phone (603) 669-9050

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press release

February 26, 1980

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MANCHESTER, NEW HAMPSHIRE--Hendrix Electronics, Inc. re-emphasized its market leadership in Optical Character Recognition (OCR) products with the announcement of underlined text processing for its TYPEREADER product line. The Hendrix TYPEREADER 2 OCR product, when equipped with the underline option, can recognize and process underlined copy produced in single space at 10 or 12 characters per inch.

This technological breakthrough removes the last format restriction in OCR scanning which had previously prevented first-time-for-final typing at the document originators typing station.

For the OCR systems user, this revolutionary feature enables every typist in the company to more effectively use the word processing system. Documents can be typed first-time-for-final at the secretary's desk using an attractive, letter-quality typeface--Hendrix Gothic. Should revision be necessary, the TYPEREADER 2 will scan, recognize and include underlined characters in the text, and forward the document electronically to the word processor.

Underlining recognition provides the added benefit of simplified and more complete media conversion by scanning existing documents from one brand of word processor, printed in either Hendrix Gothic element or OCR-B typewheel with underline, and routinely reading them into other word processors. Previously, reprinting and editing were required to eliminate all underlining prior to scanning.



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The TYPEREADER 2 offers approved communication interfaces to all current brands of word processors. Despite differences in how word processing units handle underlining, the TYPEREADER 2 scanned-copy with underline will appear on the word processing screen exactly as if it had been entered via the word processor keyboard.

"Hendrix is not only unique in its ability to read and process single-spaced, underlined copy, but has accomplished this breakthrough while retaining its industry leadership for recognition accuracy, lowest price, and unequalled interfacing and communications capabilities," said Stephen R. Silver, Vice-President.

The new underlining feature is available as a factory installed option on orders received after March 1, 1980, with standard 90-day delivery. The option adds \$2,000.00 to the manufacturer's suggested price of \$15,900.00. As with past enhancements to the Hendrix TYPEREADER line, a retrofit kit to upgrade installed machines will be offered. Availability of the retrofit kit is third quarter 1980.

Underlining will be demonstrated at the IWP Spring Symposium show in New York, February 26-28, and at the NCC Office Automation conference in Atlanta, March 3-5.



product description

The TYPEREADER 2 underline processor option provides the capability to read and process underscored copy.

The ability to read underlined text with an aesthetically pleasing typestyle removes the final format restriction to typing for OCR.

With the underline processor option, typists can type first-time-for-final in addition to rough draft using the Hendrix Gothic type element. If no editing changes are required, the document can be scanned without retyping. However, if changes are required, the TYPEREADER 2 can quickly scan the text and output the data, complete with underlining, to your word processor for subsequent revisions.

Media conversion is facilitated using TYPEREADER 2 with the optional underlining feature. Text can be printed out on the word processor, using OCR-A or OCR-B with underlines, and read and processed through the OCR into a different word processor.

Underlined text can be read in single line spacing, line and one half spacing or double spacing in either 10 or 12 pitch.

The option is factory installed and must be specified when ordering.

SUMMARY OF BENEFITS

- Eliminates format restrictions.
- Permits first-time-for-final typing with aesthetically pleasing scannable typeface.
- Facilitates media conversion from one type of word processor to another.



Typereader 2
Underline Option

SPECIFICATIONS

FONT FEATURES AND SAMPLE COPY

OCR-B — Industry and European standard, 10 or 12 pitch, any line spacing, including single space [6 lines per inch].

Since the TYPEREADER 2 requires no complicated typing format, every typist in an organization can be preparing output copy for the word processing system after just minutes of instruction.

With available interfaces, TYPEREADER 2 can be used with virtually any text editing system.

HENDRIX GOTHIC WITH UNDERLINE — Correspondence quality, 10 or 12 pitch, any line spacing, including single space [6 lines per inch], upper and lower case, legal characters [§ & ¶].

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With the TYPEREADER 2, every single-element office typewriter becomes a vital part of the word processing system. It is the link between the typewriter and the word processor. Because with it, the same page typed by the secretary at rough draft speed, and edited in pen by the author, is electronically read and transmitted to the text editor without anyone ever hitting another key. It can completely eliminate retyping by secretaries, and there is no need for original keyboarding at the text editor. TYPEREADER 2 will save you money manpower, time and trouble.

Type fonts with underline for use with Hendrix TYPEREADER:

Description	Part Number
OCR-A Print wheel	Diablo 38144
OCR-A Print wheel	Qume 82064
OCR-B Print wheel	Diablo 38146
OCR-B Print wheel	Qume 82065
Hendrix Gothic Type ball	Hendrix HG-2

HENDRIX

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Specifications subject to change without notice.